Niveau(x) d'enseignement : S Numéro EDUQ : 9978191
Centre d'intérêt : 650

Université Concordia. Office of Research Services.

Directory of funded research activities, 1988-1989 / compiled by Christine Tautel. -- Montréal : Université Concordia, 1990.
51 p. : ill. ; 28 cm.

Vedette(s)-secondaire(s) : Tautel, Christine.

Descripteur(s) : Projet de recherche ; Subvention de recherche ; Répertoire ; Universitaire (Ordre d'enseignement)

Les différents projets de recherche subventionnés ou commandités durant l'année universitaire 1988-1989 à l'Université Concordia sont répertoriés dans ce document. Les projets sont regroupés par faculté et, pour chacun, les renseignements suivants sont fournis : le titre du projet, le nom du responsable du projet à l'Université, le nom de l'organisme subventionnaire et le type de subvention accordée.

Type de document :

Concordia

DIRECTORY OF FUNDED RESEARCH ACTIVITIES 1988/89

OFFICE OF RESEARCH SERVICES

CONCORDIA UNIVERSITY TODAY

With approximately 26,000 students, 4,400 faculty and staff and more than 60,000 alumni worldwide, Montreal's Concordia University is one of Canada's largest and most dynamic centres of higher learning.

Students can choose from 160 undergraduate and graduate programmes in four Faculties, Commerce and Administration, Fine Arts, Engineering and Computer Science, and Arts and Science. Integrated within the Faculties are seven colleges and more than a dozen specialized research centres.

From its two founding institutions, Loyola College (1896) and Sir George Williams University (1873), Concordia has inherited a tradition of superior teaching supported by the best possible scholarship, creative activity, research and service to society. Each year the University awards more than 3,600 degrees and diplomas.

Although the majority of its students are recent college graduates, Concordia maintains an openness to part-time studies, flexible class schedules and an interdisciplinary approach to learning for women and men of all ages and backgrounds. In fact, we are recognized as having one of Canada's most welcoming open-door policies towards senior students (those aged 55 and over).

The University has two campuses: Sir George Williams, downtown, with 38 buildings spread over 13 city blocks, and Loyola, about 7 kilometers away in a residential setting on 40 acres in west-end Montreal. That campus has 31 buildings.

Concordia's hallmark has always been community involvement. Many of the part-time faculty are professionals drawn from the artistic community and the business world. The full-time faculty are engaged in a wide range of social, cultural and economic endeavours that help to enrich the lives of people in Montreal, across Canada and abroad. In financial terms, the research grants allocated to Concordia have increased enormously during the 16 years since the University was established, up from $1.3 million in 1974 to $12.5 million this past year.

Ever responsive to Montreal's bilingual and multicultural environment, Concordia continues to offer a wide range of community services from business and professional seminars to cultural and recreational activities.

CONCORDIA UNIVERSITY

90-70191

DIRECTORY OF FUNDED RESEARCH ACTIVITIES

1988-89

COMPILED BY

CHRISTINE TAWTEL
Office of Research Services

FOR ADDITIONAL INFORMATION PLEASE CONTACT: CONCORDIA UNIVERSITY
OFFICE OF RESEARCH SERVICES/1455 de MAISONNEUVE BOULEVARD
WEST/MONTREAL, QUEBEC/H3G 1M8

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PREFACE

We are pleased to introduce our second edition of the DIRECTORY OF FUNDED RESEARCH ACTIVITIES at Concordia University. This Directory reflects the various research activities that have been supported during the 1988-89 academic year. It does not, however reflect the total amount of research and creative activities ongoing at Concordia.

The availability of such a Directory provides to the community at large a reflection of the variety and scope of research expertise. Anyone wishing to obtain greater details or to consult with the respective researcher, should call the Office of Research Services.

University funding continued to show growth over the past year to a new high of 12.4 million dollars, an increase of approximately 12%.

The growth of funded research and creative activities over a five year period, as well as the distribution of funded activity throughout the various departments is noted in the statistics and graphs.

The establishment of the UQAM-R&D Concordia (Industrial Liaison Office) joint technology office has made a significant contribution to the research activities at both institutions through a concerted effort to contact the private sector, particularly within Quebec. We are confident that the advances made to date will produce impressive results.

I would like to thank Mike Hainsworth, Advertising and Publicity Department and Laune Zack, Public Relations Department who have provided advice and assistance in the organization and presentation of this data. One cannot however, overlook the dedication and involvement of our researchers without whom this document would not be a reality.

We trust that this Directory will be a useful tool to the community. We welcome your comments and inquiries.

Audrey J. Williams
Director,
Office of Research Services.

March 1990

INTRODUCTION

As indicated by the contents of this Directory, Concordia University continues to develop in fulfilling its primary mission. Concordia, along with other universities worldwide, has a mission to discover, extend and critique knowledge about our world, and to communicate to others both that knowledge and the means to extend it. This, the University accomplishes by means of its two principal activities, (1) teaching and (2) research, scholarship and creative activity. Concordia, furthermore, is an urban university in the heart of Montreal. We bear a special responsibility to educate the members of that diverse community, of which we are a part, and to deliver the results of our scholarship and creativity to our milieu. The university values this mission and these activities as a fundamental cultural endeavour which creates human resources for the next generation.

As this Directory appears in the Spring of 1990, Concordia is in the process of rededicating itself to its academic mission by reviewing its short-term goals, and the mechanisms to achieve them. Within the context of the research portfolio of the Office of the Vice-Rector, Academic, the University is launching the Faculty Research Development Programme, which Senate approved last Fall. Its aim is to permit individual faculty, who so wish, to dedicate or to rededicate themselves to research, scholarship and creative activity. The University is also in the process of opening its own industrial liaison office, as an outgrowth of its participation these last several years in UQAM-R&D-CONCORDIA, an NRC funded project.

This Directory covers research, scholarship and creative activity funded by external granting agencies, government and industrial contracts handled by the Office of Research Services (ORS). It attests to the important work of the ORS and the dedication of its staff. It represents as well the important role of the principal Canadian and Quebec agencies, NSERC, SSHRC, MRC, FCAR, CQRS, and FRSQ, in supporting university-based activity. In this period of governmental cutbacks, these agencies must be vigorously defended.

The Directory is, of course, evidence, necessarily partial, of the dedication and quality of the University's scholars. Other evidence is Concordia's major role in three of the recently announced Federal Networks of Centres of Excellence, and participation in a fourth. The evidence of this Directory is necessarily incomplete in yet another, more significant way. Within the Faculty of Fine Arts at Concordia, the creative arts are pursued within the context of a university. Concordia's Fine Arts Faculty is one of the most important in Quebec and in Canada. The fact that the federal and provincial granting agencies, whose support is herein documented, have not adequately addressed the funding of the fine arts within a university setting must be acknowledged and dealt with.

Often overlooked too, is the fact that the University itself is the single largest supporter of research, scholarship and creative activity. That support is in the form of salaries to faculty and research support staff, maintenance of support services, and the provision of space, equipment, and graduate fellowships, among many other things. The steady increase in external funding for research, scholarship and creative activity at Concordia is the outcome of the University's continued investment in its own human resources, and the researchers' energy, commitment and talent.

Jack N. Lightstone,
Associate Vice-Rector,
Academic
(Research)

March 1990

[redacted]

[redacted]

CGNB CANADA CENTRE FOR INLAND WATERS

CGNC CANADIAN COUNCIL ON ARCHIVES

CGND CANADA DEPARTMENT OF HEALTH & WELFARE

CGNE CANADIAN DIABETES ASSOCIATION

GLOSSARY

LEGEND	NAME
01	Contract
02	Operating Grants
03	Equipment Grants
20	Miscellaneous Awards (including General Research Grants)
EXT	External
INT	Internal
ANOCC	ANONYMOUS COMPANIES, CORPORATIONS, CANADIAN
ANONC	ANONYMOUS, NON-CANADIAN
ANOPC	ANONYMOUS PARTICULAR, CANADIAN
ASTRA	ASTRA PHARMACEUTICALS CANADA LTD.
AUCC	ASSOCIATION OF UNIVERSITIES AND COLLEGES OF CANADA
BATC	BRITISH-AMERICAN TOBACCO COMPANY
BC	BELL CANADA
BENDA	BENDIX AVELEX INC.
BICOM	BINARY COMMUNICATIONS INC.
BNR	BELL NORTHERN RESEARCH LTD.
BOMC	BOMBARDIER COMPANY
BRI	BIOTECHNOLOGY RESEARCH INSTITUTE
CAE	CAE ELECTRONICS LTD.
CASA	CONCORDIA UNIVERSITY (CASA)
CC	CANADA COUNCIL
CCDN	CONSEIL CANADIEN DES NORMES
CCIW	CANADA CENTRE FOR INLAND WATERS
CCOA	CANADIAN COUNCIL ON ARCHIVES
CDHW	CANADA DEPARTMENT OF HEALTH & WELFARE
CDIAB	CANADIAN DIABETES ASSOCIATION

GLOSSARY
Cont'd

LEGEND	NAME
CDINA	CANADA DEPARTMENT OF INDIAN & NORTHERN AFFAIRS
CDND	CANADA DEPARTMENT OF NATIONAL DEFENCE
CDOT	CANADA DEPARTMENT OF TRANSPORT
CDSG	CANADA DEPARTMENT OF THE SOLICITOR GENERAL
CDSS	CANADA DEPARTMENT OF THE SECRETARY OF STATE
CEIBA	CEIBA GEIGY CANADA LTEE
CEMR	CANADA DEPARTMENT OF ENERGY MINES & RESOURCES
CIFAE	CANADA ISRAEL FOUNDATION FOR ACADEMIC EXCHANGE
CMICC	CANADIAN MICROELECTRONICS CORPORATION
CNR	CANADIAN NATIONAL RAILWAYS
CPR	CANADIAN PACIFIC RAILWAY
CQRS	CONSEIL QUÉBECOIS DE LA RECHERCHE SOCIALE
CRIM	CENTRE DE RECHERCHE INFORMATIQUE DE MONTRÉAL
CST	CONSEIL DE LA SCIENCE ET DE LA TECHNOLOGIE
CWARC	CANADIAN WORKPLACE AUTOMATION RESEARCH CENTRE
DRIE	DEPARTMENT OF REGIONAL INDUSTRIAL EXPANSION
DSS	CANADA DEPARTMENT OF SUPPLY AND SERVICES
FCAR	FONDS POUR LA FORMATION DE CHERCHEURS ET L'AIDE À LA RECHERCHE
FRSQ	FONDS DE LA RECHERCHE EN SANTE DU QUÉBEC
GAZM	GAZ METROPOLITAIN, INC
HYDIC	HYDROGEN INDUSTRY COUNCIL
IDAC	IDACOM
IDLA	INSTITUT DE L'AMIANTE
IRSST	INSTITUT DE RECHERCHE EN SANTE ET EN SECURITE DE TRAVAIL DU QUÉBEC
MCCIQ	MINISTÈRE DES COMMERCES CULTURELLES ET DE L'IMMIGRATION

GLOSSARY
Cont'd

LEGEND	NAME
MESS	QUEBEC MINISTERE DE L'ENSEIGNMENT SUPERIEUR ET DE LA SCIENCE
MRC	MEDICAL RESEARCH COUNCIL
MRAI	QUEBEC MINISTERE DES RELATIONS INTERNATIONALES ET AFFAIRES INTERGOUVERNEMENTALES
NIMH	NATIONAL INSTITUTE OF MENTAL HEALTH
NRC	NATIONAL RESEARCH COUNCIL
NSERC	NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL
NWRI	NATIONAL WATER RESEARCH INSTITUTE
PETRO	PETROMONT INC
PRATT	PRATT & WHITNEY CANADA INC
QMAC	QUEBEC MINISTERE DES AFFAIRES CULTURELLES
QMIC	QUEBEC MINISTERE DE L'INDUSTRIE ET COMMERCE
QMOC	QUEBEC MINISTERE DES COMMUNICATIONS
RITE	RITEPRO INC
SAND	SANDOZ CANADA
SC	SHELL CANADA LTD
SPAR	SPAR AEROSPACE LTD
SQUIB	SQUIBB CANADA INC
SSHRC	SOCIAL SCIENCES & HUMANITIES RESEARCH COUNCIL
STAUF	STAUFFER CHEMICAL CO
USHEW	U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES
USNR	U.S. NAVY OFFICE OF NAVAL RESEARCH
VMTL	VILLE DE MONTREAL
WGL	WOOD GUNDY LIMITED

TABLE I

DEPARTMENTAL RESEARCH FUNDING
1988-89

ADMINISTRATION	FULL TIME FACULTY	TOTAL
Library and Archives	31	$ 28,789
Research Administration		127,507
TOTAL FOR ADMINISTRATION	**31**	**$ 156,296**

* Administration includes research activities in Library, Archives, support for translation services for research projects, and CRIM contributions.

ARTS AND SCIENCE	FULL TIME FACULTY	TOTAL
Dean of Arts and Science		$ 24,532
Applied Social Science	9	1,000
Biology	24	875,210
Chemistry	24	848,942
Classics	3	800
Communication Studies	17	18,300
Centre d'Etude du Québec	1	45,790
Economics	27	149,937
Education	25	158,865
English	33	78,606
Etudes françaises	23	5,224
Exercise Science	9	35,570
Geography	9	6,250
Geology	6	17,880
History	25	104,642

DEPARTMENTAL RESEARCH FUNDING
1988-89
Cont'd

ARTS AND SCIENCE	FULL TIME FACULTY	TOTAL
Institute for Cooperative Education	1	$ 11,874
Journalism	3	9,502
Leisure Studies	3	10,000
Library Studies	2	2,607
Mathematics	38	219,027
Modern Languages and Linguistics	13	2,000
Philosophy	19	5,100
Physics	13	91,026
Political Science	18	83,238
Psychology	41	2,210,424
Religion	10	86,215
School of Community and Public Affairs (SCPA)	1	7,094
Simone de Beauvoir Institute	1	52,829
Sociology & Anthropology	26	113,853
TESL	11	41,005
Theological Studies	7	8,515
TOTAL FOR ARTS AND SCIENCE	**422**	**$ 5,325,857**

COMMERCE AND ADMINISTRATION	FULL TIME FACULTY	TOTAL
Dean of Commerce		$ 7,738
Accountancy	25	9,350
Decision Sciences & Management Information Systesm (DSMIS)	22	139,970
Finance	20	66,552
Management	28	102,186
Marketing	17	82,302
TOTAL FOR COMMERCE AND ADMINISTRATION	**112**	**$ 408,098**

DEPARTMENTAL RESEARCH FUNDING
1988-89
Cont'd

ENGINEERING AND COMPUTER SCIENCE	FULL TIME FACULTY	TOTAL
Dean of Engineering		$ 172,000
Centre for Building Studies	14	1,135,035
Civil Engineering	14	324,855
Computer Science	27	1,106,200
Electrical and Computer Engineering	25	1,360,604
Mechanical Engineering	22	2,368,937
TOTAL FOR ENGINEERING AND COMPUTER SCIENCE	**102**	**$ 6,467,631**

FINE ARTS	FULL TIME FACULTY	TOTAL
Dean of Fine Arts		$ 2,524
Art Education & Art Therapy	11	5,219
Art Gallery	1	39,515
Art History	11	34,228
Cinema	9	6,010
Dance	2	1,702
Music	11	440
Painting and Drawing	13	410
Printmaking & Photography	9	350
Sculpture, Ceramics and Fibres	8	4,664
Theatre	11	2,800
TOTAL FOR FINE ARTS	**86**	**$ 97,862**

TABLE II

FUNDING OF RESEARCH GRANTS AND CONTRACTS

FIVE-YEAR COMPARISON

1984-1989

SOURCE OF FUNDING	1984-85	1985-86	1986-87	1987-88	1988-89
Canadian Companies and Corporations	379,824	378,037	978,853	1,156,509	808,185
Canadian Associations, Foundations and Societies	241,076	327,830	253,391	490,686	585,189
NSERC	3,923,886	3,877,008	4,278,813	4,658,637	5,672,397
SSHRC	537,545	533,602	498,716	814,464	842,201
Other Federal Government Departments	1,441,233	924,516	1,069,724	763,331	918,972
Quebec Government	1,610,164	2,653,259	2,431,681	2,896,760	2,932,635
Non-Canadian Organizations	0	13,460	37,854	39,095	65,042
United States Government	159,839	67,718	212,420	197,487	474,157
Other Sources	44,060	54,810	84,242	128,044	156,966
TOTAL GRANTS AND CONTRACTS	**$ 8,337,627**	**$8,830,240**	**$ 9,845,694**	**$11,144,413**	**$12,455,744**
Annual % Increase		5.9%	11.5%	13.2%	11.8%
Grants	$ 7,574,075	$ 8,096,256	$ 8,554,816	$ 9,499,950	$11,346,421
Contracts	$ 763,552	$ 733,984	$ 1,290,878	$ 1,644,463	$ 1,109,323

FUNDING OF RESEARCH GRANTS AND CONTRACTS
Cont'd

Figure I.

TYPES OF FUNDED RESEARCH
1988-89

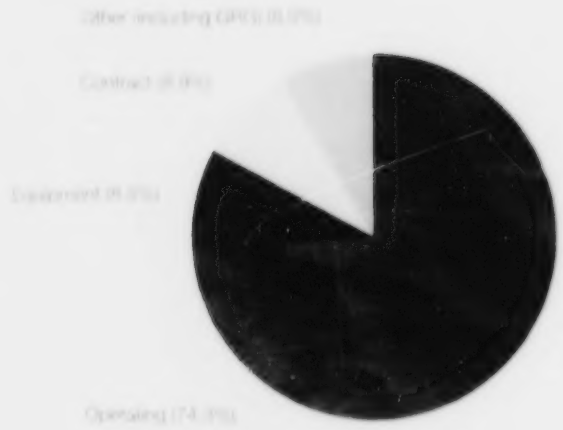
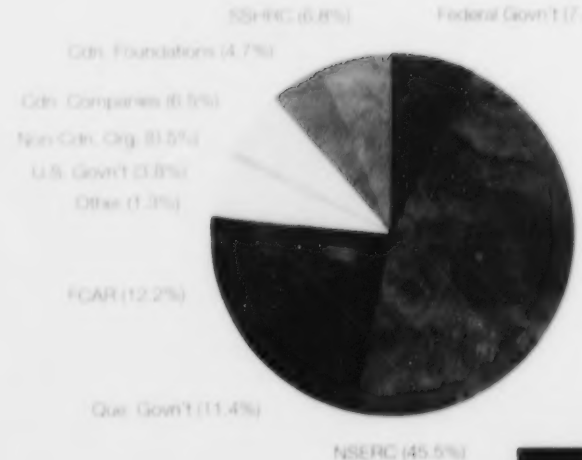


Figure II.

TOTAL FUNDED RESEARCH
1988-89

BREAKDOWN BY SOURCE



FUNDING OF RESEARCH GRANTS AND CONTRACTS
Cont'd

Figure III.

R&D GRANT GROWTH OVER FIVE YEARS

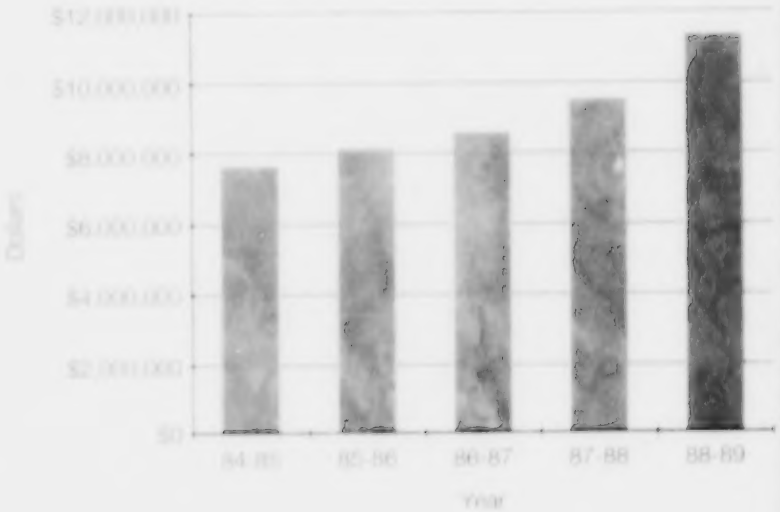
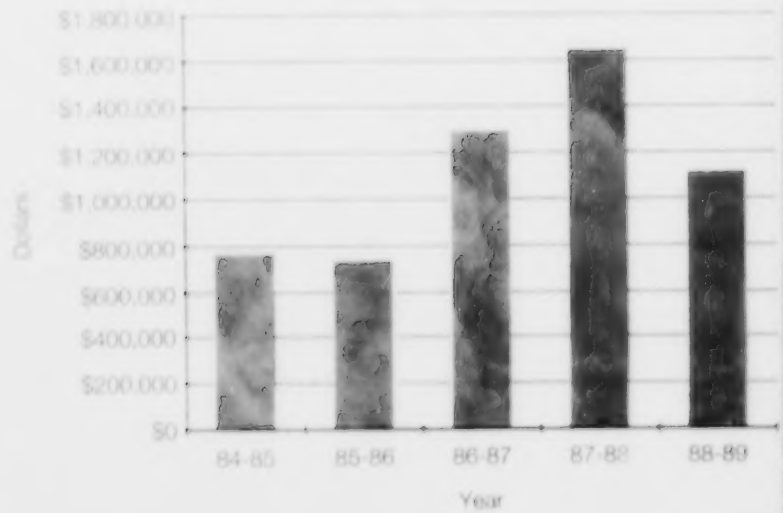


Figure IV.

R&D CONTRACT GROWTH OVER FIVE YEARS



The diversity of the research interests of members of the Arts and Science Faculty is evident from the list of research grants and contracts which follows. Faculty members continue to pursue research in the various areas of Humanities, Social and Pure Sciences at an accelerating pace. The current listings represent an increase of 15% in the number of grants and contracts awarded to our faculty members since a similar document was published in 1987-88.

The amount of research funds generated by Arts and Science Faculty members in 1988-89 shows an increase of 26.3% over those of 1987-88. Sources of external funding include the Natural Sciences and Engineering Research Council (NSERC 33.9%), the Social Sciences and Humanities Research Council (SSHRC 12.2%) and the Fonds pour la Formation de Chercheurs et l'Aide a la Recherche (FCAR 16.0%). The remainder (37.9%) includes the Medical Research Council, various government agencies and contracts with government and private agencies.

The Faculty of Arts and Science continues to house the Actions Structurantes' Centre for Research on Inorganic Materials (Chemistry Department), and is involved with the inter-university Actions Structurantes' Centre for Research on the Development of Industry and Technology (Economics Department). We also house the Canadian Picosecond Laser Flash Photolysis Centre (Chemistry Department) and two FCAR Research Centres: Centre for Research in Human Development (Psychology Department) and Centre for Studies in Behavioural Neurobiology (Psychology Department); the Director of the latter is also a member of the recently formed National Centre of Excellence on Neural Regeneration and Functional Recovery.

ADMINISTRATION

LIBRARY

SINGER, L.	Art and Architecture in Canada	SSHRC	(INT) 20

FACULTY OF ARTS AND SCIENCE

APPLIED SOCIAL SCIENCE

GAVIN, J.	Exercise Motivation	ANCFC	(EXT) 02

BIOLOGY

ALBERT, P.	Host-Plant Selection by Insects	NSERC	(EXT) 02
ANDERSON, P.	Do Fish Optimize their Energy Intake for Maintenance and Growth when they Thermoregulate ?	CASA	(INT) 20
ANDERSON, P. Langford, C. Leduc, G. Maly, E. Nuby, S.	Modèles écotoxicologiques de polluants chimiques dans l'environnement aquatique	FCAR	(EXT) 02
CUPPLES, C.	Maintenance of DNA Replication of Fidelity in Yeast	CASA	(INT) 20
CUPPLES, C.	Determining the Catalytic Mechanism of E. Coli Dam Methylase	CASA	(INT) 20
ENESCO, H.	Study of Cellular Change in Aging	CASA	(INT) 20
ENESCO, H.	Research on Cell Proliferation	ANCFC	(EXT) 02
ENESCO, H.	Cellular Control of Lipofuscin Formation (International Collaborative Research Grant)	NSERC	(EXT) 02
ENESCO, H.	Lifespan: Influence of Physiological and Cellular Factors	NSERC	(EXT) 02
ESPIE, G.	Inorganic Carbon Transport of Cyanobacteria	NSERC	(EXT) 02
FAIRBAIRN, D.	Allelic Polymorphisms in the Gerridae: Correlated Traits and Adaptive Significance	NSERC	(EXT) 02
GIRALDEAU, L.	The Existence and Development of Skill Pools: Field and Laboratory Investigations	NSERC	(EXT) 02
HERRINGTON, M.	Molecular Biology	NSERC	(INT) 20
HERRINGTON, M.	Suppression by THYA Mutants of Escherichia Coli	NSERC	(EXT) 02
HILL, C.	Automated Sampling UV/VIS Spectrophotometer for Metabolic Analysis	NSERC	(EXT) 03
HILL, C.	Biophysical and Biochemical Studies on Cell Cultures Derived from the Liver	CASA	(INT) 20
HILL, C.	Patch-Clamp Studies of Membrane Currents and their role in Signal Transduction in Single Liver Cells	NSERC	(EXT) 02

	Project Title	Agency	Type
IBRAHIM, R.	Enzymology and Compartmentation of Plant Secondary Metabolites	NSERC	(EXT) 02
IBRAHIM, R. Cosbrook, L.	Enzymology and Compartmentation of Secondary Plant Metabolites	FCAR	(EXT) 02
IBRAHIM, R.	Immunological Localization of Vindoline in Catharanthus Roseus Plants	NRC	(EXT) 01
IBRAHIM, R.	CentriAugé (High Capacity, Medium-low Speed)	NSERC	(EXT) 03
IBRAHIM, R. Breton, N. De Luca, V.	Engineering Altered Secondary Metabolism in Rauvolfia (Strategic Group)	NSERC	(EXT) 02
KORNBLATT, J.	Isolation of Cytochrome with Derivatives	FCAR	(INT) 20
KORNBLATT, J.	Cytochrome c Oxidase: Its Conformations and its Interactions with Other Macromolecules	NSERC	(EXT) 02
KORNBLATT, J.	See ENGLISH, A. (Chemistry)	FCAR	(EXT) 02
LEDUC, G.	Archaeological Structures of Unknown Origin in Quebec: An Enigma to Resolve	ANDRC	(EXT) 02
LEDUC, G.	Investigations of Cairns and Nearby Stone Foundations in the Eastern Townships of Quebec	SSHRC	(EXT) 20
LEDUC, G.	See ANDERSON, P.	FCAR	(EXT) 02
MALY, E.	Factors Affecting Incidence of Cataract in Copepod Populations	NSERC	(EXT) 02
MALY, E.	See ANDERSON, P.	FCAR	(EXT) 02
MANSAT, P.	Biochemical Aspects of Salt Tolerance in Plant Cell and Tissue Culture	NSERC	(INT) 20
MCLAUGHLIN, J.	Biology of Waterfowl Helminths	ANDRC	(EXT) 02
NEWMAN, E.	Molecular Aspects of the L Serine Deaminase and its Coding and Regulatory Genes	NSERC	(EXT) 02
NEWMAN, E.	Construction of a Genetically Engineered Bacterial Strain for the Commercial Production of L-serine from Glycine (Strategic)	NSERC	(EXT) 02
NEWMAN, E.	Degradation of Proteins as a Regulatory Mechanism in Yeast and E. Coli	FCAR	(EXT) 02 (EXT) 03
NOY, R.	Diminishing Radiation Damage and Enhancing Immune System	CDND	(EXT) 01
RUBY, S.	Mechanism of Action of Sublethal Cyanide in Rainbow Trout (Salmogairdneri)	NSERC	(EXT) 02
RUBY, S.	See ANDERSON, P.	FCAR	(EXT) 02
STORMS, R.	Regulation of the Periodically Expressed TMP1 Gene	NSERC	(EXT) 02
STORMS, R.	Regulation of DNA Metabolism in Yeast	NSERC	(INT) 20
STORMS, R.	The Isolation of Proteolysis Deficient Yeast Strains	IWR	(EXT) 01

	Project Title	Agency	Type
WIDDEN, P.	Ecology of Soil Microfungi Involved in Litter and Cellulosa Decomposition	NSERC	(EXT) 02
WIDDEN, P.	Differential Interference Contrast Microscope	NSERC	(EXT) 03
CENTRE D'ETUDE DU QUEBEC			
NISH, C.	Debates of the Legislative Assembly of United Canada: 1841-1867	SSHRC	(EXT) 02
CHEMISTRY			
ABLENAS, F.	The Preparation of Electrophilic Sulfur, Selenium and Tellurium - Transfer Reagents	NSERC	(INT) 20
BELL, M.	Electrochemistry of Solid - Solid Interactions	NSERC	(EXT) 02
BIRD, P.	Synthetic, Crystallographic and Catalysis Studies in Organometallic Chemistry	NSERC	(EXT) 02
CAPOBIANCO, J.	Silicate Glass Ceramics: New Materials for Tunable Solid State Lasers and Luminescent Glass Collectors	NSERC	(EXT) 02
CAPOBIANCO, J.	Photoluminescence Studies of Eu3 Doped Calcium Tungstate Tetrahydrate Crystals	CASA	(INT) 20
COLEBROOK, L.	See (BRAHM, B. (Biology)	FCAR	(EXT) 02
DALNT, S.	Support for an Ongoing Program of High Resolution Laboratory and Field Studies of Astrophysical Molecules	NSERC	(EXT) 02
DENES, G.	Dynamic Study of High Tc Superconductors and Ionic Conductors by the Mossbauer Effect	NSERC	(EXT) 02
ENGLISH, A. Kornblatt, J.	Studies on Heme Proteins	FCAR	(EXT) 02 (EXT) 03
ENGLISH, A.	Automated Fast Protein Liquid Chromatography System	NSERC	(EXT) 03
ENGLISH, A.	Gel Filtration by FPLC of Proteins and Enzymes	FCAR	(INT) 20
ENGLISH, A.	Studies on Denatured Proteins	NSERC	(INT) 20
ENGLISH, A.	Ligand Binding and Redox Properties of Heme Proteins	NSERC	(EXT) 02
HILL, B.	Mechanistic Studies of the Reactions Catalysed by Cytochrome c Oxidase	NSERC	(EXT) 02
HILL, B.	Temperature Dependence of Electron Transfer from Cytochrome Oxidase to O2	NSERC	(INT) 20
KHAN, R.	Use of Yeast Mutants in the Study of Preprocarboxypeptidase Processing in Cultured Rat Islet Cells	NSERC	(INT) 20
KORNBLATT, M.	Mammalian Enolases: Subunit Interactions and Mechanism	NSERC	(EXT) 02
KORNBLATT, M.	Structure and Mechanism of Enolase and Cytosine Deaminase	ANDRC	(EXT) 02

	Project Title	Agency	Type
LANGFORD, C. Lawrence, M.	Molecular Photovoltaic Cells (Strategic Grant)	NSERC	(EXT) 02
LANGFORD, C.	Matériaux de deuxième génération pour les technologies de l'énergie et de l'électronique (Actions structurantes)	MESS	(EXT) 02
LANGFORD, C.	Étude des photocatalyseurs pour le traitement des déchets industriels (Programme de coopération entre le Québec et les autres provinces canadiennes)	MESS	(EXT) 02
LANGFORD, C. Zenkus, R.	Inorganic Photochemistry and Environmental Speciation	NSERC	(EXT) 02
LANGFORD, C.	See ANDERSON, T. (Biology)	FCAR	(EXT) 02
LAWRENCE, M.	Photovoltaic Devices Using II-VI Semi-Conductors Grown by the Gas-Solid Process	NSERC	(EXT) 02
LAWRENCE, M.	Polymer Based Solid State Gas Sensors	CASA	(INT) 20
LAWRENCE, M.	See LANGFORD, C.	NSERC	(EXT) 02
LE VAN MAO, R.	Essais de polymérisation du DCPD	PETRO	(EXT) 01
LE VAN MAO, R.	Catalyseurs Zéolitiques, Caractérisation physico-chimique et optimisation de formulation	NSERC	(EXT) 02
LE VAN MAO, R.	Développement d'un adsorbant chryscopétique comme intercepteur d'eau et consommateur de H2	CLA	(EXT) 01
SERPONE, N.	Fundamental Studies in Heterogeneous Photocatalysis/Inorganic Photochemistry	NSERC	(EXT) 02
TEE, O.	Studies in Physical Organic Chemistry	NSERC	(EXT) 02
ZENKUS, R.	See LANGFORD, C.	NSERC	(EXT) 02
CLASSICS			
SANDERS, L.	Dion and the Syracusan Revolution	SSHRC	(INT) 20
COMMUNICATION STUDIES			
BERLAND, J.	Technological Innovation and Public Planning: A Historical Study of Music Programming and Public Exposure	CASA	(INT) 20
DINACOPOULOS, D.	A Model of Elementary Vision	CASA	(INT) 20
METALINOS, N.	Three Dimensional Video: Perceptual and Aesthetic Principles	SSHRC	(INT) 20
SHINAR, D.	A Cross-Cultural Conceptual Framework for the Analysis of Communications in Development Processes	SSHRC	(INT) 20
TADDEO, D.	Content Analysis of Visible Minority Representation in Quebec Television	MCCIQ QMOC	(EXT) 02 (EXT) 02
THWAITES, H.	1989 International Conference on Three Dimensional Media Technology	ANOCC	(EXT) 02

	Project Title	Agency	Type
ECONOMICS			
AHSAN, S.	Tax Policy and Reform Under Uncertainty: General Equilibrium Analysis	SSHRC	(EXT) 02
AHSAN, S.	Theory of Tax Reform	SSHRC	(INT) 20
ALVI, S.	Estimating Intra & Inter Organizational Income Differentials: The Case of Canadian Airline Industry	SSHRC	(INT) 20
BANERJI, S.	Macroeconomic Coordination Between Interdependent Economies	CASA	(INT) 20
DERRESSON, C.	Networks of Innovators	FCAR	(EXT) 02
DERRESSON, C.	Innovation in Canada	ANCPC	(EXT) 02
DERRESSON, C.	Exportations de technologie du Québec	DST	(EXT) 01
DERRESSON, C.	The Role of Consulting Engineering in Montreal (Montreal Studies Project)	IC	(EXT) 02
KEIL, M.	The Unemployment Rate Gap Between Canada and the United States	SSHRC	(EXT) 02
RAHQUZZAMAN, M.	The Role of the Patent System in the Transfer of Technology: A Case Study of Canada-Asia (Bangladesh)	SSHRC	(INT) 20
SAMPSON, M.	Econometric Applications of Random Coefficient Autoregression Models	CASA	(INT) 20
SIGGEL, E.	Trade Policy Adjustment	ANCPC	(EXT) 02
SIGGEL, E.	Foreign Trade and Investment Policies for Industrialization in China since the Economic Reforms	SSHRC	(INT) 20
SIMS, W.	The Timing and Incidence of Fertility in Canada: A Study of the Labour Market Consequences of Female Work Interruptions	SSHRC	(EXT) 02
EDUCATION			
ABRAMI, P. Dabdelleville, B. Farrell, M.	Effects of Cooperative Learning on Cooperative Behaviour, Student Achievement (Math) and Attitudes	FCAR	(EXT) 02 (EXT) 03
BAGGALEY, J.	See COLDEVIN, G.	FCAR	(EXT) 02
BARON, L.	Group Process Factors in Children's Learning from Microcomputers	SSHRC	(INT) 20
BERNARD, B.	See [illegible] M.	FCAR	(EXT) 02
BOYD, G.	Perfectionnement par modélisation cybernétique. Projet pour identifier et expliquer les aspects plus importants pour l'efficacité de cette méthodologie, en utilisant les téléconférences assistées par ordinateur	FCAR	(EXT) 02 (EXT) 03
CLEGHORN, A.	Educating Third Language Speakers in Quebec: Academic and Social Considerations	SSHRC	(INT) 20
COLDEVIN, G. Baggaley, J. Tovar, M.	Matching Learner Characteristic with Levels of External Control in Designing Interactive Video: maximum, partial, and minimal user control options compared	FCAR	(EXT) 02

	Project Title	Agency	Type
DEBELLEFEUILLE, B.	The Underlying Mechanisms of Cooperative Learning	FCAR	(INT) 20
DEBELLEFEUILLE, B.	See ABRAMI, P.	FCAR	(EXT) 02
DICKS, D.	See SCHMID, R.	FCAR	(EXT) 02
FARRELL, M.	The Effect of Collaborative Learning on Academic Self-Concept	CASA	(INT) 20
FARRELL, M.	See ABRAMI, P.	FCAR	(EXT) 02
HOWE, N.	The Role of Reciprocal and Complementary Interactions in the Sibling Relationship	SSHRC	(EXT) 02
KNITTER, W.	Deliberative Curriculum Theory: Implications for Education	ANOPC	(EXT) 02
MITCHELL, D. Zaman, V.	Representation of Knowledge and Instructional Strategies for Intelligent Computer Aided Learning	FCAR	(EXT) 02 (EXT) 03
PIGOT, J.	Proposal to Study Needs of Distant Learners Using Electronic Networks to Access Course Content	CASA	(INT) 20
SCHMID, R. Bernard, R. Dicks, D.	An Analysis of the Teaching/Learning Utility of Expert Systems as Higher Order Instructional Algorithms	FCAR	(EXT) 02
SMITH, R.	Dealing with Difficult Problems in Clinical Teaching: A Theory of Action	FCAR	(INT) 20
STEVENS, F.	Oral and Written Communication Strategies of French Immersion Students	MNOPC	(EXT) 02
STEVENS, F.	French Second Language Proficiency: A Comparison of Children in Quebec and Ontario Schools	SSHRC	(INT) 20
TOVAR, M.	See COLLEVIN, G.	FCAR	(EXT) 02
ENGLISH			
FINK, H.	The 'Author' and the Text: Publication of Andrew Allan's Radio Theatre	CASA	(INT) 20
FINK, H.	Canadian National Theatre on the Air, 1937-1962: 86. CBC Radio Drama in English A Descriptive Bibliography of Broadcasts and Union List of Holdings Canadian Studies Research Tools	SSHRC	(EXT) 02
FREWALD, B.	Gender, Creativity, and Literary Production	SSHRC	(EXT) 02
GEDDES, G.	Beyond Fu Sang: The Chinese Discovery of North America	SSHRC	(INT) 20
MARTIN, R.	Patrick Anderson, Poet and Activist: A Survey of the Resources for a Study of the Canadian Years	SSHRC	(INT) 20
RONQUIST, E.	Medieval Encyclopedism in the Work of Gregorius	SSHRC	(INT) 20
SOMMER, B.	Presentation of Poetry in a Multi-Media Context for Video Tape Cassette	ANOPC	(EXT) 02

	Project Title	Agency	Type
WILSON, J.	The Recreating Self: Artistic Identity and Narrative Technique in Defoe's Fiction	ANORC	(EXT) 02
ETUDES FRANCAISES			
SIMON, S.	Le prose romanesque québécoise depuis 1945	FCAR	(INT) 20
VERTHUY, M.	L'espace temps dans la littérature	SSHRC	(INT) 20
VERTHUY, M.	Vie quotidienne dans la francophonie	FCAR	(INT) 20
EXERCISE SCIENCE			
DOWLING, J.	The Interface of Kinematic Stimulation and Mental Imagery in the Enhancement of Athletic Performance	FCAR	(INT) 20
KILGOUR, R.	Metamorphosis Adaptations in Experimental Diabetes	CDMB	(EXT) 02
PARIS, D.	The Effects of the Swede-O, New Glove, and MacDavid Ankle Braces and Adhesive Ankle Taping on Speed, Balance, Agility and Power (Achilles concertina)	FCAR	(EXT) 02
SKILLERS, W.	A Continuous-Discontinuous Treadmill Protocol for the Determination of Aerobic Capacity in Healthy Older Subjects	CASA	(INT) 20
GEOGRAPHY			
ANDERSON, J.	The Relation of Instruction and Verbal Ability in the Acquisition of Selected Cartographic Skills by Kindergarten Children	ANORC	(EXT) 02
ANDERSON, J.	Elementary Students (Kindergarten to Grade 6) Attitudes to and Knowledge of Cartographic Maps	SSHRC	(INT) 20
FROST, D.	Heart Attack Death and Temperature in Montreal 1982-87	NSERC	(INT) 20
GREENE, D.	Wind Dispersal of Seeds from an Area Source	CASI	(INT) 20
SLACK, B.	Port Services and the Urban Hierarchy	SSHRC	(INT) 20
GEOLOGY			
KUMARAPELI, S.	Tectonics and Mineral Deposits with Nanaimo University Bracketing of the Lapetan Rift-Drift Transition in the Appalachians	CASA	(INT) 20
KUMARAPELI, S.	Problems on Magmatism Related to the Early Cambrian Sutton Mountains Triple Junction	NSERC	(INT) 20
ST. SEYMOUR, K.	Monitoring the Magmatic Record of the Aegean Volcanic Using Nomarski & Laser Interferometer	NSERC	(INT) 20
ST. SEYMOUR, K.	Chemostratigraphy of Greenstone Belts, Slave Province, NWT, Canada	NSERC	(EXT) 02

	Project Title	Agency	Type
HISTORY			
ADAMS, G.	Research into Certain Aspects of Protestant and Jewish Life in Modern France	WOL	(EXT) 02
CARR, G.	The Politics of Culture: English Canadian Literary Criticism, 1938-1943	SSHRC	(INT) 20
CHALK, F.	The Montreal Institute for Genocide Studies (MIGS)	ANCIPC	(EXT) 02
DECARIE, G.	Japanese Canadians of Montreal	SC	(EXT) 02
FICK, C.	Long-Term Socio-Historical Study of the Island of St. Barthelemy	SSHRC	(EXT) 02
FICK, C.	Social History of Slavery on a Caribbean Isolate: St. Barthelemy 1648-1878	CASA	(INT) 20
KEATING, P.	Natural Antibodies and the Development of Immunology, 1896-1970	SSHRC	(EXT) 02
SCHADE, R.	Female Anti-Feminist Groups in Germany Between Turn of the Century and 1933	CASA	(INT) 20
TITTLER, R.	Orner Heroux: French-Canadian Journalist 1878-1960	SC	(EXT) 02
TITTLER, R.	Architecture and Power: the Town Hall and the English Urban Community, c. 1500-1540	SSHRC	(EXT) 02
INSTITUTE FOR COOPERATIVE EDUCATION			
TRUDEL, G.	Analysis of Environmental Samples for Inorganic Chemicals for National Water Quality Laboratory	CCIW	(EXT) 01
JOURNALISM			
CRYSLER, L.	Journalism Training and Development	ANCIPC	(EXT) 02
PERIGOE, R.	Communications Technology Innovations	ANCIPC	(EXT) 02
RAUDSEPP, E.	A Book-Length Biography of Lord Atholstan, Founder of the Montreal Star	ANCIPC	(EXT) 02
LEISURE STUDIES			
SWEDBURG, R.	Eldorhostel Quebec Development	ANCICC	(EXT) 02
MATHEMATICS			
ALI, S.	Square Integrable Group Representations and Quantum Theory	NSERC	(EXT) 02
BOYARSKY, A.	Problems in Applied Ergodic Theory	NSERC	(EXT) 02
BOYARSKY, A.	Computer Simulation of Tumor Growth for Cancerous Cells	CASA	(INT) 20

	Project Title	Agency	Type
BOYARSKY, A.	See BYERS, W.	FCAR	(EXT) 02
BRODY, J.	Development and Testing of Numerical Analysis	FCAR	(INT) 20
BYERS, W. Boyarsky, A. Malik, M. Proppe, H. Stern, R.	Iteration of Maps and Applications	FCAR	(EXT) 02
BYERS, W.	Dynamics of Endomorphisms of Euclidean Spaces	NSERC	(EXT) 02
CHAUBEY, Y.	A Study of some Statistical Procedures in Sampling and Linear Models	NSERC	(EXT) 02
CUMMINS, C.	General Area of Group Theory and Some Related Areas of Lie Theory	NSERC	(INT) 20
DESROCHERS, M.	Self-Duality of Rings of Integers as Galois Modules	NSERC	(EXT) 02
DUMMIT, D.	Algebraic Number Theory	NSERC	(EXT) 02
DWIVEDI, T.	Statistical Inference in Linear Model	NSERC	(EXT) 02
GARRIDO, J.	Simulation Study of Perturbed Diffusion Risk Reserve Processes	CASA	(INT) 85
GARRIDO, J.	Diffusion Models for Risk Processes	NSERC	(EXT) 02
HALL, R.	Geometrical and Graphical Methods in Theoretical Physics	NSERC	(EXT) 02
HILLEL, J.	Using Computer Algebra Systems for Teaching Mathematics to Adult Learners	SSHRC	(INT) 20
KHALIL, Z. A.	Probabilistic Approach to Optimal Quality Usage	NSERC	(INT) 20
KISILEVSKY, H.	Algebraic Number Theory	NSERC	(EXT) 02
KISILEVSKY, H.	Computational Number Theory and Algebra	NSERC	(INT) 20
MALIK, M.	See BYERS, W.	FCAR	(EXT) 02
PROPPE, H.	See BYERS, W.	FCAR	(EXT) 02
RAPHAEL, R.	Topics in Rings and Abelian Groups	NSERC	(EXT) 02
SELDIN, J.	See SZABO, M.	NSERC	(EXT) 02
STANFORD, D.	Accurate Priority Queuing Network Delay Approximations	NSERC	(EXT) 02
STERN, R.	Cone Reachability and Matrix Theory	NSERC	(EXT) 02
STERN, R.	See BYERS, W.	FCAR	(EXT) 02
SZABO, M.	Applications des categories a la logique, a l'analyse, et a l'information theorique	FCAR	(EXT) 02
SZABO, M. Seldin, J.	Applications of Logic to Arithmetic and Analysis	NSERC	(EXT) 02

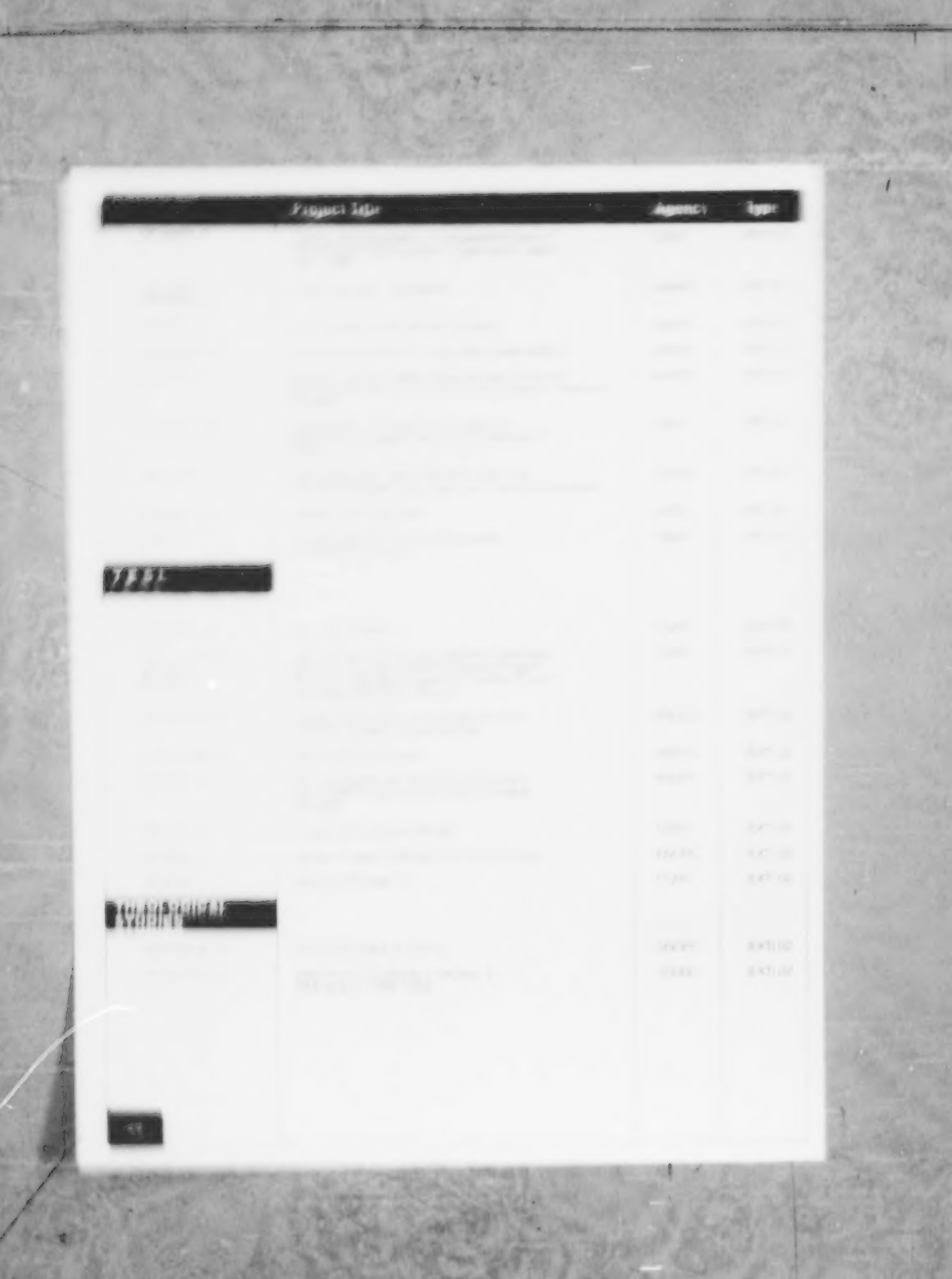
	Project Title	Agency	Type
MODERN LANGUAGES & LINGUISTICS			
SALVATORE, F.	Antichi e Moderni in Italia nel Seicento Ancients & Moderns in Italy in the 17th Century	SSHRC	(INT) 20
PHILOSOPHY			
ALLEN, P.	Women's Conceptual History: Transition from 1250-1800 to 1800-1994	SSHRC	(INT) 20
JOOS, E.	Publication of Book on Nietzsche	ANDPC	(EXT) 02
ZEMAN, V.	See MITCHELL, D. (Education)	FCAR	(EXT) 02
PHYSICS			
EDDY, N.	Design, Construction, Testing of (a) Portable Dose Equivalent (Radiation Survey Meter) and (b) Design, Construction, Testing of Educational Microcomputer for Science/Engineering Applications	ANDPC	(EXT) 02
FRANK, B.	High Tc Superconductivity Theory: Electron Correlation Approach	NSERC	(INT) 20
FRANK, B.	Ising Model: Critical Exponents	NSERC	(EXT) 02
FRANK, M.	Gluonium Decays, Chiral Quark Model and Composite Models	NSERC	(EXT) 02
KALMAN, G.	Supersymmetric Model for Electroweak Interactions without Baryon or Lepton Number Violation	NSERC	(EXT) 02
MISRA, S.	EPR and Endor Investigations of Paramagnetic Ions Doping Single Crystals	NSERC	(EXT) 02
POLITICAL SCIENCE			
ANGELL, H.	The Quebec Liberal Party, 1920-1985: A Study in Repeated Political Success and Failure: An Analysis	SSHRC	(INT) 20
CHORNEY, H.	Macro-Economic Policy and Policy Alternatives	SSHRC	(EXT) 02
MENDELL, M.	The Social Philosophy of Karl Polanyi: The Relevance to Contemporary Issues of Political Economy	SSHRC	(EXT) 02
MENDELL, M.	La dynamique etat-marche dans les economies post-industrielles et en voie de developpement. Une analyse critique des strategies de rechange (Programme: la cooperation Sud-Sud entre universites des autres provinces canadiennes)	MESS	(EXT) 02
PSYCHOLOGY			
AMIR, S.	Identification of the Hypothalamic Substrate Involved in the Regulation of Thermogenesis in Brown Adipose Tissue by Neurochemistry of Excitatory Amino Acids	NSERC	(INT) 20

	Project Title	Agency	Type
AMIR, S.	Thyrotropin Releasing Hormone and Thermoregulation in Aged Rats	NSERC	(EXT) 02
AMIT, Z.	A Biobehavioral Investigation of Ethanol Reinforcement and Aversion	NSERC	(EXT) 02
AMIT, Z.	Concordia Fund for Alcoholism and Addiction Research	ANOCC	(EXT) 02
AMIT, Z.	The Effect of Ibogaine on Ethanol Self-Administration in Rats	ANOCC	(EXT) 02
AMIT, Z. Aragon, C. Smith, B.	Genetic and Environmental Influences on Drug Self-Administration in Rats	FCAR	(EXT) 02 (EXT) 03
AMIT, Z.	The Development of a Treatment Model for Human Alcoholics	ASTRA	(EXT) 02
ARAGON, C.	See AMIT, Z.	FCAR	(EXT) 02
ARBUCKLE MAAG,T.	Correlates and Consequences of Lifetime and Current Alcohol Consumption in Older Men	CDHW	(EXT) 02
BADARIK, P.	Uncovering the Canadian Roots of Psychology	ANOPG	(EXT) 02
BARBEAU, J.	Corrélats neurophysiologiques d'attention sélective	NSERC	(EXT) 02
BRENDER, W.	Psychological Evaluation of Infertile Couples Participating in G.I.F.T. (Gamete Intrafallopian Transfer)	CQRS	(EXT) 02
BRETON, G.	Research in History of Psychology	ANOPC	(EXT) 02
BROSS, M.	Temporal Factors in Perception	ANOPC	(EXT) 02
BRUSSELL, E.	The Processing of Contour and Brightness Information	NSERC	(EXT) 02
CONWAY, M. Kaloupek, D.	La mémoire autobiographique et le schéma de soi dans l'autorégulation émotionnelle	FCAR	(EXT) 02 (EXT) 03
CONWAY, M.	Autobiographical Recall and the Self-Schema in Emotional Self-Regulation	SSHRC	(EXT) 02
CONWAY, M.	Cognitive and Physiological Components of Negative Emotional Response	CASA	(INT) 20
DOYLE, A.B.	Communication in Social Pretend Play: Developmental Patterns from 5 to 9 years (Strategic)	SSHRC	(EXT) 02
DOYLE, A.B.	Research on Friendship and Social Pretend Play	ANOPC	(EXT) 02
DOYLE, A.B.	See SERBIN, L.	FCAR	(EXT) 02
GOLD, D.	Verbosity in Elderly People: An Examination of its Psychological Significance (Strategic)	SSHRC	(EXT) 02
GOLD, D.	Dementia Patients Residing in the Community	FRSQ	(EXT) 02
GRAY, T.	Making Sense: Studies of Belief, Critical Abilities and Evidence	SSHRC	(INT) 20
GRAY, T.	Dimensions of Evidence: Studies of Belief	ANOPC SSHRC	(EXT) 02 (EXT) 02

	Project Title	Agency	Type
HILTON, A.	Ethnic Relations	ANOPC	(EXT) 02
HOOPER, W.	Research on Management Selection Procedures	ANOPC	(EXT) 02
KALOUPEK, D.	Medical Stress Research	ANOPC	(EXT) 02
KALOUPEK, D.	See CONWAY, M.	FCAR	(EXT) 02
KOMODA, M. Poulin-Dubois, D. Segalowitz, N.	Etudes de la lecture dans une langue seconde	FCAR	(EXT) 02
KRUK, R.	Visual Contributions to Simulator Sickness	CAE MRC	(EXT) 02 (EXT) 03 (EXT) 03
KRUK, R.	Temporal and Spatial Characteristics of Perceived Motion	NSERC	(EXT) 02
LAMBERT, R.	The Role of Perceptual Training, Group Counselling and Individual Counselling in the Improvement of Visual Performance and Adjustment with Visually Impaired Individuals	SSHRC	(INT) 20
LAURENCE, J.-R.	Mécanismes cognitifs sous-jacents aux modifications spontanées et suggérées de la mémoire	FCAR	(EXT) 02 (EXT) 03
LAURENCE, J.-R.	Distortions of Memory and Perception in Hypnosis and Alertness	NSERC ANOPC	(EXT) 02 (EXT) 02
OVERBURY, O.	Perceptual Skills and Spatial Contrast Sensitivity – Plasticity and Visual Impairment	NSERC	(EXT) 02
PERRY, C.	Errors of Memory and Hypnotic Hypermnesia	NSERC	(EXT) 02
PLESZEWSKI, Z.	Antidepressants Combined with Systems of Therapy and/or Hypnotherapy: Psychoimmunological Effects	CASA	(INT) 20
POULIN-DUBOIS, D.	Cognitive Constraints on Acquisition of Object Words	NSERC	(EXT) 02
POULIN-DUBOIS, D.	The Emergence of Categorization Among Preverbal 12-14 month-old Infants	SSHRC	(EXT) 02
POULIN-DUBOIS, D.	See KOMODA, M.	FCAR	(EXT) 02
ROCHFORD, J.	Spinal Cord Mechanisms Mediating Tolerance to the Analgesic of Opiates	NSERC	(INT) 20
ROMPRE, P.-P.	Behavioural Studies of the Pharmacological Properties of Dopamine Neurons	MRC	(EXT) 02
ROMPRE, P.-P.	Brain Stem Substrates of Intracranial Self-Stimulation	NSERC	(EXT) 02
ROMPRE, P.-P.	See SHIZGAL, P.	FCAR	(EXT) 02
SCHENK, S.	Environmental Influence on Drug-Produced Reward	NSERC	(EXT) 02
SCHWARTZMAN, A.	Les comportements agressifs et renfermés de l'enfance comme facteurs de risque: les séquelles psychosociales à l'âge adulte	CQRS	(EXT) 02
SCHWARTZMAN, A.	Childhood Risk Factors for Adult Mental Disorders	NIMH	(EXT) 02

	Project Title	Agency	Type
SEGALOWITZ, N.	Developing Automatic Word Recognition Skills in Reading	CASA	(INT) 20
SEGALOWITZ, N.	See KOMODA, M.	FCAR	(EXT) 02
SERBIN, L.	Centre de recherche en développement humain	FCAR	(EXT) 02 (EXT) 03
SERBIN, L. Doyle, A.B. White, D.	Développement de stéréotypes sexuels: Etudes de l'interaction entre l'affect et la cognition	FCAR	(EXT) 02
SHAMOS, M.	Science and the Epistemology of Creativity	ANCIPC	(EXT) 02
SHIZGAL, P.	Electrophysiological and Anatomical Studies of Brain Stimulation Reward in the Rat	MRC	(EXT) 02
SHIZGAL, P. Rompre, P.-P.	Les mécanismes nerveux responsables de l'autostimulation intracérébrale chez le rat	FCAR	(EXT) 02
SHIZGAL, P.	Psychophysical Studies of Brain Stimulation Reward	NSERC	(EXT) 02
SINYOR, D.	Parameters Influencing the Cardiovascular and Psychological Response to Acute Exercise	ANCIPC	(EXT) 02
SMITH, B.	See AMIT, Z.	FCAR	(EXT) 02
STEWART, J.	Conditioned Physiological Changes to Repeated Administration of Psychoactive Drugs	MRC	(EXT) 02
STEWART, J.	Hormonal, Experiential and Neural Determinants of Sex Differences in Behaviour	NSERC	(EXT) 02
TAYLOR, N.	A Study of Long-term Memory in Preterm and Full-term Infants with the Mobile Conjugate Reinforcement Paradigm	ANCIPC	(EXT) 02
TESSIER, D.	Une étude des contraintes sociales dans le développement des activités ludiques symboliques (Drawgirl)	SSHRC	(EXT) 02
WHITE, C.	Behavioural Assessment of Dysfunctional Pathways in the Human Visual System	MRC	(EXT) 02
WHITE, D.	Childhood Obesity Research	ANCIPC	(EXT) 02
WHITE, D.	See SERBIN, L.	FCAR	(EXT) 02
WISE, R.	Neurobiology of Ethanol Abuse	USHEW	(EXT) 02
WISE, R.	MFB Motivational Mechanisms	NSERC	(EXT) 02
WISE, R.	Centre d'études en neurobiologie comportementale	FCAR	(EXT) 02 (EXT) 03
WISE, R.	Rat Model of Intravenous Drug Abuse	MRC	(EXT) 02
WISE, R.	Neural Substrate of Cocaine Abuse	USHEW	(EXT) 02
WISE, R.	Nicotine Actions in Brain Reward Mechanisms	BATC	(EXT) 02 (EXT) 03
WISE, R.	Electrochemical Dactor	NSERC	(INT) 20
WOODSIDE, B.	Hormone Environmental Interactions and Maternal Behaviour in the Rat	NSERC	(EXT) 02

	Project Title	Agency	Type
WOODSIDE, B.	Factors Mediating the Effects of Food Restriction on the Duration of Lactational Anoestrus in the Rat	MRC	EXT (G)
RELIGION			
BIRD, F.	See LEHTISTONE, J.	FCAR	EXT (G)
DESPLAND, M.	Mentalités religieuses au XiXe siècle	SSHRC	EXT (G)
DESPLAND, M.	Sciences des religions en France au XIXe siècle	SSHRC	INT (P)
HOWES, D.	The Varieties of Sensory Experience	SSHRC	EXT (G)
LEHTISTONE, J.	Talmudic Rabbinism, Society and Text	SSHRC	EXT (G)
LEHTISTONE, J. BIRD, F.	Rituels religieux et configuration sociale. Une étude de congrégations sœurs contemporaines	FCAR	EXT (G)
ROBINSON, I.	Lloyd Allen: The Bibliographic of an American Jew	SSHRC	INT (P)
SCHOOL OF COMMUNITY & PUBLIC AFFAIRS			
MENDELL, M.	Karl Polanyi Institute of Political Economy	SSHRC FCAR ANCOPC	INT (G) INT (G) EXT (G)
POLANYI-LEVITT, K.	Karl Polanyi Institute of Political Economy	ANCOPC	EXT (G)
SHAPIRO, D.	La gestion de recherche sur l'industrie : relâtions et organisation	SSHRC	UNT (P)
SIMONE DE BEAUVOIR INSTITUTE			
ANLEY, M.	Women and Scientific Work in Canada – The Exact and Social Sciences (Bibliography)	SSHRC	EXT (G)
ANLEY, M.	See HENRIK, E.	NC	EXT (G)
HENRIK, E. Anley, M.	Women Scientists in Montreal, 1920-1960	NC	EXT (G)
L'HERAULT, F.	The Publications of the Simone de Beauvoir Institute	SSHRC	INT (P)
ROBERTS, B.	Black Montrealers: A Piece of the Multi-Cultural Mosaic	NC	EXT (G)
SOCIOLOGY & ANTHROPOLOGY			
COLLARD, C.	Traitement informatique de l'alliance à travers Francette (Conte de Charlevoix)	SSHRC	EXT (G)
DE VRIES, P.	Individuals, Households, and Communities: A Comparative Study of Coping in Two Cape Breton Localities, 1871-1998	SSHRC	EXT (G)



	Project Title	Agency	Type
DE VRIES, P.	Coping with Marginality: A Comparative Study of Two Scottish Communities in Cape Breton Island, 1871-1968	CDSS	(EXT) 02
HOECKER-DRYSDALE, S.	Harriet Martineau: A Biography	SSHRC	(INT) 20
HOWES, D.	Anthropology of the Senses: Polynesia	ANOPC	(EXT) 02
JONASSOHN, K.	The Montreal Institute for Genocide Studies (MIGS)	ANOPC	(EXT) 02
LEGROS, D.	Research into the Relationships between Economic and Symbolic Structures in Arctic and Subarctic Traditional Societies	ANOPC	(EXT) 02
MOULEDOUX, J.	Victimization: An Inquiry into the Effect of Selected Sociological Factors on Responses to Crime	CASA	(INT) 20
SMUCKER, J.	Technology and Labour Responsiveness in the Industries of Steel, Pulp, Paper, and Telecommunications	SSHRC	(INT) 20
SYNNOTT, A.	Lifestyle: Rise and Death	CASA	(INT) 20
TALAI, V.	The Management of Social Boundaries: Armenians in London	CASA	(INT) 20
TESL			
ACHESON, P.	See LIGHTBOWN, P.	FCAR	(EXT) 02
LIGHTBOWN, P. Upshur, J. Acheson, P.	Instructional Practices and Learners' Developing Second Language Abilities in Intensive English Second Language Programs in Quebec French Language Elementary Schools	FCAR	(EXT) 02
LIGHTBOWN, P.	Projets de recherche dans les programmes intensifs d'anglais langue seconde	ANOCC	(EXT) 02
LIGHTBOWN, P.	ESL Evaluation Program	ANOCC	(EXT) 02
MACKAY, R.	An Investigation into Factors Contributing to the Academic Success and Failure of Native Students	ANOPC	(EXT) 02
MACKAY, R.	A Cultural Awareness Module	CDSS	(EXT) 02
PALMER, J.	Modern English Grammar: Form and Function	ANOPC	(EXT) 02
UPSHUR, J.	See LIGHTBOWN, P.	FCAR	(EXT) 02
THEOLOGICAL STUDIES			
MCEVENUE, S.	Research in Biblical Sources	ANOPC	(EXT) 02
MORGZUK, R.	Millenium of Christianity in Ukraine: A Bibliography (1988-1989)	SSHRC	(EXT) 02

FACULTY OF COMMERCE & ADMINISTRATION

The Faculty of Commerce and Administration is a dynamic faculty with an increasing impact on the business community. Its research productivity focuses mainly on the development of new approaches and models to assist business to meet the ever complex challenge of today's environment, e.g., high technology, competition, globalization of the economy, etc. A materialization of the Faculty's commitment vis-à-vis the business community is the creation of various research centres, such as: Concordia Pharmaceutical Management Centre; Concordia Transportation Management Centre; Treasury Management Centre; International Business; and the Centre for Small Business and Entrepreneurial Studies.

In addition, funded research activities have been multiplying over the last years. The Faculty of Commerce and Administration is presently attracting an average of approximately $400,000 per year from external funding agencies. This is indeed a recognition of the high calibre of the Faculty's research output. We are most proud to inform you of the 1988-89 funded research activities undertaken by the various departments which compose our Faculty of Commerce and Administration. The diversity of research topics as well as their substantial contribution to the business community reflects the Faculty's commitment to excel as a major contributor to this community.

	Project Title	Agency	Type
FACULTY OF COMMERCE AND ADMINISTRATION			
ACCOUNTANCY			
KIM, J.	The Relative Usefulness of Successful Efforts Versus Full Costing Information for Equity Valuation	FCAR	(INT) 20
SEGOVIA, J.	The Lack of Relevance and Usefulness of Management Accounting Systems: Myth or Reality	CASA	(INT) 20
SIMYAR, F.	Doing Business with China: Managerial and Environmental Factors Influencing the Success or Failure of Canadian Organizations	SSHRC	(INT) 20
DECISION SCIENCES & M.I.S.			
BOURJOLLY, J.	Design and Implementation of Algorithms in Operations Research	NSERC	(EXT) 02
BUYUKKURT, M.	Analysis of a Multi-echelon Repairable-Item Inventory System	NSERC	(EXT) 02
ETEZADI, J.	A Feasibility Study of Developing a Decision Support System for Assessment of Multi-Attribute Outcomes	CASA	(INT) 20
FARKHOMANDI, A.	Factors Influencing the Success of Inter-organizational Information Systems: The Case of Electronic Data Interchange	CASA	(INT) 20
GOYAL, S.	Determination of a Supplier's Economic Manufacturing Policy	NSERC	(EXT) 02
GRIGGS, K.	An Exploration of Goal Directed, Multi Media Based Interfaces for the Office Environment	CASA	(INT) 20
KIRA, D.	A Framework for the Capital Budgeting Process	CASA	(INT) 20
KUBY, M.	Algorithms for Stochastic Linear Integer Programs with Application to Financial Planning	NSERC	(EXT) 02
KUBY, M.	Multiperiod Capital Budgeting Under Uncertainty	SSHRC	(EXT) 02
MACGIBBON, TAYLOR, B.	Theorie de la decision et inegalites	NSERC	(EXT) 02
MORIN, D.	On Some Estimators in Time Series Properties and Applications	NSERC	(INT) 20
MORIN, D.	Distributional Problems Related to Quadratic Forms and Applications	CASA	(INT) 20
NEBEBE, F.	Estimating Standard Errors of Empirical Bayes Estimators through the Bootstrap Procedures	NSERC	(INT) 20
NEBEBE, F.	Bayesian and Empirical Bayes Shrinkage Estimation	NSERC	(EXT) 02
PEDRYCZ, G.	Cost Allocation Models	NSERC	(EXT) 02

	Project Title	Agency	Type
TOLIOPOULOS, T.	Efficient Algorithms for Network Reliability Computations	NSERC	(EXT) 02
SATIR, A.	Design of Production Planning and Inventory Control Systems for Computer Integrated Manufacturing	NSERC	(EXT) 02
SCOTT, D.	Vehicle Scheduling Methods which take Account of Operating Labor Constraints	NSERC	(EXT) 02
FINANCE			
ANVARI, M.	Optimal Inventory Decisions Under Uncertainty	NSERC	(EXT) 02
ANVARI, M.	Pareto Optimal Billing Policies	SSHRC	(EXT) 02
BROOT, A.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
DESHPANDE, S.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
DOUKAS, J.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
HABTU, R.	Are Industrial Districts Efficient ?	SSHRC	(INT) 20
HOCHSTEIN, A.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
JALILVAND, A.	Regulation and Corporate Debt Policy Decisions for Public Utilities	SSHRC	(INT) 20
JALILVAND, A.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
KRYZANOWSKI, L.	Expert Systems for Credit Granting Decision-Making	SSHRC	(EXT) 02
KRYZANOWSKI, L. Broot, A. Deshpande, S. Doukas, J. Hochstein, A. Jalilvand, A. Rahman, A. Switzer, L.	An Evaluation of the Benefits of the Quebec Stock Savings Plan (QSSP) to Corporate Quebec and Canada	FCAR	(EXT) 02
RAHMAN, A.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
SWITZER, L.	See KRYZANOWSKI, L.	FCAR	(EXT) 02
MANAGEMENT			
ASHFORTH, B.	Organizations and the Petty Tyrant	SSHRC	(EXT) 02
BABA, V.	A Longitudinal Study of Turnover Among Nurses	SSHRC	(EXT) 02
BABA, V. Jamal, M.	Les liens individu-organisation: etude programmee de la qualite et de la nature de l'attachement de l'individu a l'organisation	FCAR	(EXT) 02
DAINOW, R.	Evaluation de l'activite de conseil gestion	QMC	(EXT) 01
JAMAL, M.	Work Values and Job Attitudes: A Study of North American Muslims	SSHRC	(INT) 20
JAMAL, M.	see BABA, V.	FCAR	(EXT) 02

	Project Title	Agency	Type
MCGUIRE, J.	Executive Compensation, Firm Strategy, and Firm Performance (Strategic)	SSHRC	(EXT) (1)
RAJAN, G.	Gender-Related Differences in the Life Values of the Leaders of Unions in Canada	SSHRC	(INT) (2)
SEN, J.	Towards a Female Paradigm in Contemporary Entrepreneurship	SSHRC	(INT) (2)
WEISNER, W.	Improving the Criterion-Related Validity of the Employment Interview	SSHRC	(INT) (2)
MARKETING			
DE BRENTANI, U.	Developing New Services: Empirical Study of Success and Failure	SSHRC	(EXT) (1)
JOY, A.	Immigrant Acculturation and Home Ownership	CMHC	(INT) (2)
LAROCHE, M.	Effects of Affiliative and Behavioural Dimensions of Subculture on Consumption Behaviour	SSHRC	(EXT) (1)
MCGOWN, K.	Pharmaceutical Management Centre Feasibility Research	CIDA SANDOZ PHILIP MORRIS SCI-MED	(EXT) (1) (EXT) (1) (EXT) (1) (EXT) (1)
MCGOWN, K.	Concordia Transportation Management Centre	CNR	(EXT) (1)
MCTAVISH, R.	An Exploratory Study of Supplier Choice Behaviour in the Metal Smelting and Refining Industry	SSHRC	(INT) (2)
PASCOE, P.	The Development of Marketing Simulations	ANCOC	(EXT) (1)
ROSE, C.	Feasibility Study for a Centre for the Study of Managing the Organization in Developing Countries	CASA	(INT) (2)

FACULTY OF ENGINEERING & COMPUTER SCIENCE

The Faculty of Engineering and Computer Science continues to conduct research in the major disciplines of Building Studies, Civil Engineering, Computer Science, Electrical and Computer Engineering, and Mechanical Engineering. It has also established the following research centres to promote university/industry linkages which are operating successfully:

CBS	Centre for Building Studies
CENPARMI	Centre for Pattern Recognition and Machine Intelligence
IC	Centre for Industrial Control
CONCAVE	Concordia Centre for Adult Vehicle Engineering
CONSAPCOM	Concordia Centre for Signal Processing and Communications
SIMCON	Simulation Consortium

The Faculty [illegible] research partner in:

CRIM	Centre de recherche informatique de Montreal

The Faculty has placed emphasis on specific research programs to reflect demands arising from rapid technology development in the following areas:

Indoor environment. Building performance. Computer applications in transportation and geotechnical engineering. Environmental impact. Pattern recognition. Machine intelligence. VLSI architecture. Intelligent systems and robot control. Image/signal processing. Power electronics. Fibre optic communication networks. Advanced VLSI design and testing techniques. Computer integrated manufacturing. Composite materials. Vehicle dynamics. Knowledgebased diagnostics and reliability.

Project Title		Agency	Type
FACULTY OF ENGINEERING AND COMPUTER SCIENCE			
CENTRE FOR BUILDING STUDIES			
ATHIENITIS, A.	Modelling of Building, HVAC Dynamics and Scale for Energy Management	NSERC	(EXT) (U)
ATHIENITIS, A.	Investigation of Techniques for Simultaneous Improvement of Thermal Comfort and Energy Efficiency in Passive Solar Buildings	CEMR	(EXT) (U)
BEGAYED, U.	Preliminary Design of Buildings: A Knowledge-Based Expert System Approach	NSERC	(EXT) (U)
EL-DIASTY, R.	Quantitative Basis for Improved Design of Building Envelopes	NSERC	(EXT) (U)
EL-DIASTY, R.	See FAZIO, P.	FCAR	(EXT) (U)
FAZIO, P.	Multi-purpose Environmental Test Chamber	NSERC	(EXT) (U)
FAZIO, P.	Performance of Building Systems: Components and Processes	NSERC	(EXT) (U)
FAZIO, P.	Computer Facilities for Research in Building Engineering (Infrastructure)	NSERC	(EXT) (U)
FAZIO, P.	Impact de techniques de développement durable et analyse de cycle de vie appliquée aux bâtiments et à leur environnement. Actions structurantes.	MEQ	(EXT) (U)
FAZIO, P. El-Diasty, R. Ha, K. Lee, H. Marsh, J. Moselhi, O. Sathasivam, T.	Building Economics, Systems and Components: Planning, Design and Construction	FCAR	(EXT) (U)
FAZIO, P.	Centre d'études sur le bâtiment	FCAR	(EXT) (U) (EXT) (U)
FAZIO, P.	Project MEQA	MEQ	(EXT) (U)
FELDMAN, D.	Polymers for Energy Conservation and Solar Energy Applications	NSERC	(EXT) (U)
FELDMAN, D.	Organic Polymers in Energy Conservation	NSERC	(INT) (U)
FELDMAN, D.	Performance Testing of Sealants Using a Cycle Movement Device	CCUN	(EXT) (U)
FELDMAN, D.	Light Application in Construction Materials (Strategic Individual)	NSERC	(EXT) (U)
GUY, R.	Measurement and Prediction of Sound Transmission in Finite Surrounds	NSERC	(EXT) (U)
HA, H.	Structural Systems and Components	NSERC	(INT) (U)
HA, H.	See FAZIO, P.	FCAR	(EXT) (U)
HAGHIGHAT, F.	Adaptive Control Strategies for Buildings	NSERC	(EXT) (U)
HAGHIGHAT, F.	Life Cost Analysis	NSERC	(EXT) (U)

	Project Title	Agency	Type
HAGHIGHAT, F. Zaheeruddin, M.	Air Quality and Thermal Comfort - Development of a Model for Predicting Air Movement in Building	[illegible]	[illegible]
LOW, N.	Studies of the Long-Term Durability of Thermal Insulating Materials	[illegible]	[illegible]
LOW, N.	See [illegible]	[illegible]	[illegible]
MARSH, C.	[illegible] Controlled Atmosphere Chamber for Ultimate Strength of Structures	[illegible]	[illegible]
MOSELHI, O.	Automation in Construction Project Management	[illegible]	[illegible]
MOSELHI, O.	Computerized Database Management System for Tendering and Control of Multiple Unit Price Contracts	[illegible]	[illegible]
MOSELHI, O.	See [illegible]	[illegible]	[illegible]
STATHOPOULOS, T.	Wind Effects on Buildings	[illegible]	[illegible]
STATHOPOULOS, T.	Evaluation de nouveaux de calcul pour l'environnement sur les vents [illegible] Ville de Montréal	[illegible]	[illegible]
STATHOPOULOS, T.	Wind Load Specifications for Buildings	[illegible]	[illegible]
STATHOPOULOS, T.	Wind Effects on Buildings and their Components	[illegible]	[illegible]
STATHOPOULOS, T.	See [illegible]	[illegible]	[illegible]
[illegible]	Study of Air Quality and Necessity for Building Ventilation Control Resulting from Gases for Space Heating and Contamination Problems in Buildings	[illegible]	[illegible]
ZAHEERUDDIN, M.	Optimized Microprocessor Control Strategies for Buildings	[illegible]	[illegible]
ZAHEERUDDIN, M.	See HAGHIGHAT, F.	[illegible]	[illegible]
ZMEUREANU, R.	Design of Energy Efficient Buildings	[illegible]	[illegible]

CIVIL ENGINEERING

ASHTAKALA, B.	Pavement Design in Frozen Soils	[illegible]	[illegible]
ASHTAKALA, B.	Transportation of Hazardous Materials	[illegible]	[illegible]
BLOCKSIDGE, D.	Constitutive Equations for Frozen Soils	[illegible]	[illegible]
CARRILLO, A.	[illegible] Flow Spillways in Multiple Optimization on Hydropower	[illegible]	[illegible]
HANNA, A.	[illegible] Ductility and Flexural Capacity of Hole Anchors in Shell Foundation: The Frozen Alternative	[illegible]	[illegible]
LU, Y.	The Application of Image Analysis to the Automatic Collection of Traffic Data	[illegible]	[illegible]
PAUL, A.	Development of Simulated Design Methods for the Aseismic Design of Buildings with Fluid Energy Dissipation Devices	[illegible]	[illegible]

	Project Title	Agency	Type
PEKALI, D.	Fracture of Cavity Dams During Earthquakes	NSF(ENG)	(INT) (D)
PEKALI, D.	C.E. Sun System	NSF(ENG)	(INT) (D)
PEKALI, D.	Seismic Performance and Design of Building Structures	NSF(ENG)	(EXT) (D)
PEKALI, D.	See (PEKALI, J.)	(CUNY)	(EXT) (D)
PICKERSGILL, I.	Perspective: A Synthesis for Surface Waves	NSF(ENG)	(EXT) (D)
PICKERSGILL, H. Jarrett, D.	Development of a Numerical Light Cluster Model for Groundwater Recharge in Arid Regions	(CUNY)	(EXT) (D)
RAMAMURTHY, A.	Fuse Cells: Review for Unit Cluster	NSF(ENG)	(EXT) (D)
RAMAMURTHY, A.	Characteristics of Cement Fibers (2) Shielding Fibers (B) Junction Fibers	NSF(ENG)	(EXT) (D)
SAVAGE, G.	Modeling Real-Time Conditions, Loading or Ageing for Jamming	NSF(ENG)	(EXT) (D)
SAVAGE, A.	See (PICKERSGILL, H.)	(CUNY)	(EXT) (D)
SENEVIRATNE, P.	Models for Evaluating Energy-Absorbing Quality Performance	NSF(ENG)	(EXT) (D)
THOMSEN, M.	Design and Strengthening: A Short Version by Preliminary Methods	NSF(ENG)	(EXT) (D)
THOMSEN, M.	See (SU, HENK, J.)	(CUNY)	(EXT) (D)
VERMA, N.	Effect of Geometry of Foundations and Abutments on Performance of Earth and Rockfill Dams	(CUNY)	(EXT) (D)
WU, HENK, J.	Time and Frame Modular Segmental Structures	NSF(ENG)	(EXT) (D)
WU, HENK, J. Pekali, D. Thomsen, M.	Structural Integrity of Segmentally Prefabricated Systems - Phase II	(CUNY)	(EXT) (D) (EXT) (D)

COMPUTER SCIENCE

ALAGAR, V.	Specification and Design of Complex Real-Time Systems and their Methods	(CUNY)	(INT) (D)
ALAGAR, V.	Complexity of Secure Computations	NSF(ENG)	(EXT) (D)
ATWOOD, J.	Analysis of the Explicit Transfer Problem (ETP)	(NSF)	(EXT) (D)
BUI, T.	Non-Linear Shape Transformations	(CUNY)	(INT) (D)
BUI, T.	(1) Numerical Methods for Differential Equations (2) Optimal Algorithms for Grid Merge	NSF(ENG)	(EXT) (D)
BUI, T. Chandler, E. Li, H.T.	Numerical Methods for the Analysis, Modeling, and Simulation of Complex Systems	(CUNY)	(EXT) (D)
CHENG, H.	VLSI Architecture for Real-Time Pattern Recognition and Image Processing	NSF(ENG)	(EXT) (D)
DESAI, B.	User Friendly Interface to Information Systems	(CUNY)	(EXT) (D)
DESAI, B.	See (SCHAL, J.)	(CUNY)	(EXT) (D)

	Project Title	Agency	Type
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

	Project Title	Agency	Type
MCKAY, J. Ford, D.	Connection Realization of Applications for Digital Switching	TCAR	[illegible]
OKADA, M.	New Programming Tools and Concepts based on Monotonic Type Theory and on Universal Algebra	TCAR	[illegible]
OKADA, M.	Study on the Foundations of Logic	SUNY	[illegible]
OKADA, M.	Type Reasoning Theory for Programming Language, Program Proving, and Algebraic Specification: International Collaboration Research Grant	NSFIS	[illegible]
OKADA, M.	Study Abroad/Return	TCAR	[illegible]
OKADA, M.	Applications of Logic to Programming and Abstract Theory	NSFIS	[illegible]
OKATANI, J.	Construction of Linear Fault Tolerant Network Models	TCAR	[illegible]
OKATANI, J.	Sec CRF 1	TCAR	[illegible]
PRUNET, D.	Interactive Design and Analysis of Asynchronous Digital Systems	TCAR	[illegible]
PRUNET, D.	Sec CRF 1	TCAR	[illegible]
PRUNET, D.	Sec CRF 1	TCAR	[illegible]
RADHAKRISHNAN, T.	Man Machine Communication in Computer Processing	NSFIS	[illegible]
RADHAKRISHNAN, T.	Sec SURV 1	TCAR	[illegible]
REGENER, E.	Sec ARF 1	TCAR	[illegible]
SACKS, E.	Query Processing and Data Dependencies in Database Systems	TCAR	[illegible]
SACKS, E.	Sec SURV 1	TCAR	[illegible]
SHINGAL, R.	Cache Coherence for Multiprocessor Real Time Systems	NSFIS	[illegible]
SHINGAL, R.	Sec SURV 1	TCAR	[illegible]
SUEN, C.	Electronic Workstations and Applications	NSFIS	[illegible]
SUEN, C.	Computer Vision and Image Processing	ONLINE	[illegible]
SUEN, C. LAM, L. Radhakrishnan, T.	Optical Character Recognition Algorithms and Architectures	NSFIS	[illegible]
SUEN, C.	Research on Cursive Recognition	ONLINE	[illegible]
SUEN, C.	Evaluation of Expert Systems	IBM	[illegible]
SUEN, C.	Automatic Recognition of Characters and Facts, Man Computer Communications and Applications	NSFIS	[illegible]
SUEN, C.	Chinese Language Computer Studies	ONLINE	[illegible]
SUEN, C.	Computer Recognition of Characters and Digitized Patterns, and their Applications	NSFIS	[illegible]
SUEN, C. Krzyzak, A. Radhakrishnan, T. Shingal, R.	La reconnaissance automatique des caractères et des textes, systèmes interactifs, communications et ses applications	TCAR	[illegible]

	Project Title	Agency	Type
TAO, L.	Program Mapping for Improving Parallel Software Portability	CASA	(INT) (D)
ZHANG, C.	VLSI Design and Evaluation for RNS Systems: Study of Knowledge-Based Approach to VLSI Testing	CASA	(INT) (D)

ELECTRICAL & COMPUTER ENGINEERING

AHMAD, M.	Multidimensional Signal Processing and its Implementation Using Multiprocessors: A Architecture	NSERC	(EXT) (G)
AL-KHALILI, A.	(1) Digital Signal Processing for Film Identification in Motion Pictures (2) Effects of Gallic Technology on Computer Architecture	NSERC	(EXT) (G)
AL-KHALILI, D.	Accommodating of High Performance CMOS Cell Libraries	NSERC	(EXT) (G)
ARIAS, A.	Innovative Sensor Testing of High Voltage Direct Current Transmission	NSERC	(EXT) (G)
BENOUAR, SEEVANI, A.	Research into Correcting Capability of Error Trapping Technique for Cyclic Codes	NSERC	(EXT) (G)
BHATTACHARYYA, D.	Analysis and Design of Analog and Digital Electrical Networks	NSERC	(EXT) (G)
BHATTACHARYYA, D.	VLSI Circuit Design	NSERC	(INT) (G)
CORMIER, M.	Distributed Protocol Design for Network Optimization Problems	NSERC	(EXT) (G)
DRUKAREV, D.	Research on Distributed Processing and Expert Systems	NSERC	(EXT) (G)
ELHAKEEM, A.	Improvement for Radio and Cable Networks	NSERC	(EXT) (G)
ELHAKEEM, A.	A New Speech Encryption System	NSERC	(EXT) (G)
ELHAKEEM, A.	Optical Backbone Network for Spread Spectrum Mobile Radio and Cellular Networking	NSERC	(EXT) (G)
EMELEUS, C.	VLSI Systems: (1) An Approach to N-2 Transformation	NSERC	(EXT) (G)
GAMLIEL/TSUI, A.	Computer Diagnosis of Cochlear Nerve Disorders	NSERC	(EXT) (G)
HAYES, Mahmoud Al, M. Sarkissian, D.	Protocol Development and Performance Analysis for an Optical Fiber Local Area Network Network	ICCAD	(EXT) (G)
HAYES, J.	Studies in Tree Communications	DND	(EXT) (G)
HAYES, J.	Synchronization in Wired Band Networks	ICCAD	(INT) (G)
HAYES, J.	Studies in Local Area Networks and Related Areas	NSERC	(EXT) (G)
JOOS, G.	Power Electronic Control of Electrical Drives	NSERC	(EXT) (G)
KHOMAMI, A.	Modeling and Control of Flexible Robot Manipulators	CASA	(INT) (D)
KIRCLW, J.	Cooperative Research in Sonar Target Location (Programme de cooperation active in Quebec et les autres provinces Canadiennes)	MDSE	(EXT) (G)

	Project Title	Agency	Type
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	Project Title	Agency	Type
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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

	Project Title	Agency	Type
MECHANICAL ENGINEERING			
AHMED, A.	Vehicle Dynamic Stability and Handling	NASA/HC	(CAT) (U)
AHMED, A.	See DARVAS, G.	FCAR	(CAT) (U)
BANT, O.	Computational Dynamics and Optimization with Applications to Design Methods in Non-Acoustic and Mechanical Excitation of Engineering Flight Dynamics	NASA/HC	(CAT) (U)
BANT, O.	Flight Vibration Studies Using Beam Components with Special Performance Physical Test Method Information for Collaborative Research Grant	NASA/HC	(CAT) (U)
BANT, O.	Computational Dynamic Damping in Aerospace Structures	NASA/HC	(CAT) (U)
BANT, O.	See DARVAS, M.	FCAR	(CAT) (U)
BLACH, A.	Stress Analysis and Materials of Design for Precision Metal Components	NASA/HC	(CAT) (U)
BLACH, A.	See HOW, D.	FCAR	(CAT) (U)
CHENG, D.	Control of Robots using Digital Processing Techniques	FCAR	(RC) (U)
CHENG, D.	Robotic Controller Using a Novel Computation Organization	FCAR	(RC) (U)
CHENG, D. Hamam, A. Khalil, I. Lagace, S.	Microprocessor Control of Mechanical Systems	FCAR	(CAT) (U)
CHENG, D.	Applied Research in Fluid Control and Automation	NSERC	(CAT) (U)
CHENG, D. Gosine, R.G.	Research and Development of an Architecture for Vehicle Using Camera Vision for Path Guidance and Control Strategic Grants	NSERC	(CAT) (U)
CHENG, D.	A Transputer Environment System for Real-Time Robotic Control	NSERC	(CAT) (U)
CHENG, D.	Microprocessor Control of Mechanical Systems Interim Indicator	FCAR	(CAT) (U)
CHOMPAT, D.	Research in Mechanical Systems with Special Emphasis on Dynamics of Guided Vehicle Systems	NSERC	(CAT) (U)
DARVAAN, J.	Studies of Solid Mechanics, with Applications to Contact Problems and CAD	NSERC	(CAT) (U)
DARVAAN, J.	See DARVAS, M.	FCAR	(CAT) (U)
DOW, D.	Biomechanical Engineering of Mechanical Systems Pilot Systems for Rehabilitation	NSERC	(CAT) (U)
HAMAM, M.	2-D and 3-D Finite Element Viscous Transient Flow Analysis	NSERC	(CAT) (U)
HAMAM, M.	Large Scale CFD Technology on Vector and Parallel Supercomputers Strategic Technology	NSERC	(CAT) (U)

	Project Title	Agency	Type
HEMAM, A	Studies on Design and Development of a General Purpose Mechanical Arm with Emphasis on Application for Telegeneration and the Handicapped	NSERC	(UT) (U)
HEMAM, A	Dynamic Analysis of Robotic Systems	NSERC	(INT) (U)
HEMAM, A	See CHENG, H.	FCAR	(UT) (U)
HOA, S.	Laser System for Filament Winding Thermoplastic Matrix Composites	NSERC	(UT) (U)
HOA, S.	Composite Work	DEAE	(UT) (U)
HOA, S.	Wind Effects on Buildings	NSERC	(INT) (U)
HOA, S.	Effect of Degradation Due to Fluid Content on the Flexibility of Fiber Reinforced Plastic Vessels and Piping Cooperative R&D Project with CDF (a spent oil firm)	NSERC	(UT) (U)
HOA, S.	A Study on the Effects of Resin Processing Variables on Mechanical Properties of Thermo-plastic Composites	CDFC	(UT) (U)
HOA, S.	Vibration and Shock Analysis of Elastic and Viscoelastic Systems Under Various Loads and Environments	NSERC	(UT) (U)
HOA, S. Rezai, S. Li, S. McQueen, G.	Mechanical Behaviour of Flexible Polymeric and Composite Materials	FCAR	(UT) (U) (UT) (U)
HOA, S.	Design, Development and Validation of Composite Components Preparation of Studies on Implementation and Control of Flexible Structures of Low Mechanical Stiffness	NRCC	(UT) (U)
Jolt, V.	Analysis and Testing of Large Space Structures Techniques of Combining Test Results and Automated Updating of Models	NSERC	(UT) (U)
KRAKOW, A.	Heat Pump Energy Conversion Systems	NSERC	(UT) (U)
KRAKOW, A. Li, S.	Defrosting and Cycling of Heat Pumps in Cold Climates Strategic Groups	NSERC	(UT) (U)
KREPEC, T.	Pilot in Fuel Control Systems for Gas Turbine Engines	NSERC	(UT) (U)
KREPEC, T.	Research in New Concepts of Electronic Fuel Control Systems for Combustion Engines	NSERC	(UT) (U)
KREPEC, T.	Low Cost Electronic Fuel Control for Small Gas Turbines of Remotely Piloted Vehicles Cooperative R&D Grant with Bendix Avelex Inc.	NSERC	(UT) (U)
KREPEC, T.	Dual Fuel Urban Bus Transport System	CDTEC	(UT) (U)
KREPEC, T.	See CHENG, H.	FCAR	(UT) (U)
KWOK, C.	Research and Application of Vortex Flow Phenomenon in Fluid Control Technology	NSERC	(UT) (U)
LATNOVIC, V.	Optimal Multi-Edge RFA Tubes	NSERC	(UT) (U)

	Project Title	Agency	Type

Project Investigator	Project Title	Agency	Type
SANKAR, S.	Concordia Computer Aided Aero - Engineering Centre (CONCAVE) (Programme de soutien au renforcement des liaisons universités-industriels et de la recherche par l'utilisation intensive)	MESS	(EXT) 02
SANKAR, S.	Analytical Model for the Evaluation of Active and Semi-Active Suspensions for M113 Armoured Personnel Carrier	CDND	(EXT) 01
SANKAR, T.S.	Digital Signal Processing, Modal Analysis, Structural Modification, Vibration Testing and Control	NSERC	(INT) 20
SANKAR, T.S.	Dynamic Response and Reliability of Mechanical Systems under Deterministic and Stochastic Forces	NSERC	(EXT) 02
SANKAR, T.S.	See OSMAN, M.	FCAR	(EXT) 02
SANKAR, T.S.	See CHENG, R.	NSERC	(EXT) 02
SVOBODA, J.	Research in Control Systems Technology and Applications	NSERC	(EXT) 02
SVOBODA, J.	Development of Microprocessor Controlled "Smart Valve" System	ISTC	(EXT) 01
VATISTAS, G.	Investigation of Secondary Flow in Gas Turbine Blades	PWAT	(EXT) 02
VATISTAS, G.	Confined Vortex Flow: Phenomena with Applications	NSERC	(EXT) 02
XISTRIS, G.	Reliability of Mechanical Systems and Components Through Fatigue Damage Estimates	NSERC	(EXT) 02
XISTRIS, G.	See OSMAN, M.	FCAR	(EXT) 02

FACULTY OF FINE ARTS

What follows in this *Directory of Funded Research Activities 1988-89* for the Faculty of Fine Arts is a small portion of the Faculty's contributions to new knowledge in the arts and cultural milieu.

Members of the full-time faculty are art historians, film scholars, art educators, art therapists, photographers, print makers, sculpture, ceramic and fibres artists, painters, filmmakers, design artists, dancers, choreographers, musicians, conductors, theatre educators, stage and costume and lighting designers, actors, and directors. Their scholarly and creative activity is thus both rich and varied. It includes the preparation and dissemination of original work for group and for solo exhibitions in galleries and museums; film festivals; dance productions; theatre productions; concerts; scholarly journals, texts, and art magazines. Much of this work is funded by the artist/educator/writer or by commission.

Project Title		Agency	Type
FACULTY OF FINE ARTS			
ART EDUCATION & ART THERAPY			
FAIRCHILD, A.	Description and Analysis of Young Children's (aged 7-11) Aesthetic Responses and Comparison of these to Cognitive Development	ANOPC	(EXT) 02
MULLEN, C.	Community-based Art Education	ANOPC	(EXT) 02
ART GALLERY			
PAIKOWSKY, S.	Dana Damani (1948-1987)	CC	(EXT) 02
PAIKOWSKY, S.	Research on Goodridge Roberts and his Association with the Art Students League	ANONC	(EXT) 02
PAIKOWSKY, S.	Tim Zuck, Architecture/Architectonics Exhibition	CC	(EXT) 02
ART HISTORY			
GEORGE, H.	Turner Project	ANOPC	(EXT) 02
JAMES, E.	Study Material on Thomas U. Walter at the Philadelphia Athenaeum	CASA	(INT) 20
PAIKOWSKY, S.	Journal of Canadian Art History	SSHRC FCAR	(EXT) 02 (EXT) 02 (EXT) 03
CINEMA			
LEVITIN, J.	Guerilla	ANOOC	(EXT) 02
WAUGH, T.	Hard to Imagine	ANOPC	(EXT) 02
ZUCKER, C.	Stanislavski's Heritage in American Film and T.V.	CASA	(INT) 20
MUSIC			
HOMZY, A.	Music Cataloging	ANOPC	(EXT) 02
SCULPTURE, CERAMICS & FIBRES			
LIPKE, K.	Transformation in Paper	CASA	(INT) 20
THEATRE			
GROSS, G.	The Radio Drama of Harold Pinter	CASA	(INT) 20

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